Special Issue

Remote Sensing Data Preprocessing and Calibration

Message from the Guest Editors

With the rapid development of remote sensing technology, the availability of its data has increased rapidly, forming the basis for extensive Earth observation applications across research areas like agricultural production, climate monitoring, geological exploration, etc. However, raw signals from satellite, airborne, and ground-based sensors are prone to distortions (radiometric inconsistencies, geometric offsets, atmospheric/topographic effects). Thus, such data need careful preprocessing and calibration to ensure consistency, comparability, and physical interpretability across time, space, and sensor types. This special issue calls for submissions on advancing data correction, normalization, and harmonization methods/practices. We particularly welcome deep learning applications to enhance preprocessing and optimize uncertainty in data calibration. It aims to strengthen remote sensing data's application foundation in environmental resources, agriculture, climate science, etc., by improving its quality and reliability.

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Message from the Editorial Board

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

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